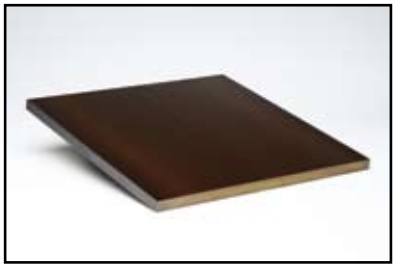
HIGH PERFOMANCE PLASTICS

TORLON® 5030

PolyAmideImide Glass Filled 30%



PRODUCT CAPABILITIES:

· Rod : 1.5" - 15"
· Sheet : 3/8" - 1.5"

PRODUCT COLORS:

● Dark Brown

ADVANTAGES:

· High Service Temperature In Air (260°C Continuously)
· High Mechanical Strength, Stiffness And Creep Resistance
· Dimensionally Stable
· Low Flammability
· Good Electrical Insulating And Dielectric Properties
· Excellent Resistance Against High Energy Radiation

APPLICATIONS INCLUDE:

· Structural Application Supporting Static Loads For Long Periods Of Time At High Temperature

GENERAL PROPERTIES	ASTM or UL Test	TORLON® 5030 Typical Values
PHYSICAL		
Specific Gravity (g/cm^3)	D792	1.61
Water Absorption, 24 hrs (%)	D570	0.24
MECHANICAL		
Tensile Strength (psi)	D1708	29,700
Tensile Modulus (psi)	D1708	1,560,000
Tensile Elongation at Break (%)	D1708	7
Flexural Strength (psi)	D790	48,300
Flexural Modulus (psi)	D790	1,700,000
Compressive Strength (psi)	D695	38,300
Compressive Modulus (psi)	D695	1,150,000
Hardness, Rockwell	D785	94
IZOD Notched Impact (ft-lb/in)	D256	1.5
THERMAL		
Coeff. of Thermal Expansion (x 10^{-6} in./in./°F)	D696	9
Heat Deflection Temp (°F / °C) @ 264 psi	D648	539 / 282
Glass Transition Temp (°F / °C)	D3418	–
Max Operating Temp (°F / °C)	–	–
Thermal Conductivity (BTU-in/ft^2-hr-°F)	C177	2.5
Flammability Rating	UL94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	840
Dielectric Constant at 1 MHz	D150	4.2
Dissipation Factor at 1 MHz	D150	0.05
Surface Resistivity (ohm/sq) at 50% RH	D257	1x 10^{13}

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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